

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	7	(US-7081636-\$ or US-6649917-\$ or US-4922114-\$ or US-5440131-\$).did. or (EP-1371611-\$).did. or (GB-2389577-\$ or US-5440131-\$).did.	USPAT; EPO; DERWENT	ADJ	ON	2010/01/08 16:20
L5	26	EP-1371611-\$.DID. OR US-6432213-\$.DID. OR US-6646269-\$.DID. OR US-5440131-\$.DID. OR US-2432840-\$.DID. OR US-2389577-\$.DID. OR US-5874740-\$.DID. OR JP-9299938-\$.DID. OR US-2306546-\$.DID. OR US-5958900-\$.DID. OR WO-0181019-\$.DID. OR US-1452523-\$.DID. OR DE-60015610-\$.DID. OR DE-60015610D-\$.DID. OR EP-1274521-\$.DID. OR JP-2003531004-\$.DID. OR US-2241553-\$.DID. OR US-2789300-\$.DID. OR WO-0051943-\$.DID. OR US-2371870-\$.DID. OR DE-60004178-\$.DID. OR DE-60004178D-\$.DID. OR EP-1159225-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/08 16:21
L6	12	US-2233882-\$.DID. OR US-3388270-\$.DID. OR US-4412233-\$.DID. OR US-4002882-\$.DID. OR US-5440131-\$.DID. OR US-5874740-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/08 16:21
L7	10	US-4195034-\$.DID. OR US-5440131-\$.DID. OR US-6432213-\$.DID. OR US-6646269-\$.DID. OR EP-1371611-\$.DID. OR US-7869199-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/08 16:21
L8	8	((PIERRE) near2 (GIRONDET)).INV.	US-PGPUB; USPAT	ADJ	ON	2010/01/08 16:21

L9	4	((CHRISTIAN) near2 (VANPEENE)).INV.	US-PGPUB; USPAT	ADJ	ON	2010/01/08 16:21
L10	213	OTV adj2 SA.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/08 16:21
L11	71	@ad<"20030206" and (I4 or L7 or L8 or L9 or L10 or L5 or L6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/08 16:21
L12	5	@ad<"20030206" and (I4 or L7 or L8 or L9 or L10 or L5 or L6) and (slot \$4 or groov\$4 or bevel\$4 or depress\$4 or lip\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/08 16:23
L13	1	(US-6646269-\$).did.	USPAT	ADJ	ON	2010/01/08 16:42
L14	1	(US-4922114-\$).did.	USPAT	ADJ	ON	2010/01/08 16:47
S1	4856	(250/453.11-455.11,493.1-504H).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/02 11:34
S2	2227	@ad<"20030206" and S1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 11:36
S3	4	US-5440131-\$.DID. OR EP-1371611-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 11:43
S4	1	@ad<"20030206" and S1 AND S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 11:43

S5	201	@ad<"20030206" and S1 AND (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) same (steriliz\$4 or steriliza\$4 or sanitiz\$4 or sanitiza\$4 or disinfect\$4 or decontaminat\$4 or sterilis\$4 or sterilisa\$4) with (fomite or device or article or object or item or tool or piece or specimen or sample or surface or film or target or substrate or subject or workpiece or article or object or wafer or medium or liquid or gas or water)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 11:45
S6	54	@ad<"20030206" and S1 AND (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) same (steriliz\$4 or steriliza\$4 or sanitiz\$4 or sanitiza\$4 or disinfect\$4 or decontaminat\$4 or sterilis\$4 or sterilisa\$4) with (fomite or device or article or object or item or tool or piece or specimen or sample or surface or film or target or substrate or subject or workpiece or article or object or wafer or medium or liquid or gas or water) and (bulb or source or element or lamp or emitter or light or generat\$4) with (scrub\$4 or scrap\$4 or clean\$4 or wiper or wash\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 11:47

S7	38	@ad<"20030206" and S1 AND (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) same (steriliz\$4 or steriliza\$4 or sanitiz\$4 or sanitiza\$4 or disinfect\$4 or decontaminat\$4 or sterilis\$4 or sterilisa\$4) with (fomite or device or article or object or item or tool or piece or specimen or sample or surface or film or target or substrate or subject or workpiece or article or object or wafer or medium or liquid or gas or water) and (bulb or source or element or lamp or emitter or light or generat\$4) with (scrub\$4 or scrap\$4 or clean\$4 or wiper or wash\$4) and (radiolucent or translucent or transparent or transmissiv\$4 or clear or trans\$4 or transmit\$4) with (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 11:50
S8	39	@ad<"20030206" and S1 AND (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) same (steriliz\$4 or steriliza\$4 or sanitiz\$4 or sanitiza\$4 or disinfect\$4 or decontaminat\$4 or sterilis\$4 or sterilisa\$4) with (fomite or device or article or object or item or tool or piece or specimen or sample or surface or film or target or substrate or subject or workpiece or article or object or wafer or medium or liquid or gas or water) and (bulb or source or element or lamp or emitter or light or generat\$4) with (scrub\$4 or scrap\$4 or clean\$4 or wiper or wash\$4) and	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 11:50

		(radiolucent or translucent or transparent or transmissiv\$4 or clear or trans\$4 or transmit\$4 or quartz\$4) with (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV)				
S9	0	@ad<"20030206" and S1 AND (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) same (steriliz\$4 or steriliza\$4 or sanitiz\$4 or sanitiza\$4 or disinfect\$4 or decontaminat\$4 or sterilis\$4 or sterilisa\$4) with (fomite or device or article or object or item or tool or piece or specimen or sample or surface or film or target or substrate or subject or workpiece or article or object or wafer or medium or liquid or gas or water) and (bulb or source or element or lamp or emitter or light or generat\$4) with (scrub\$4 or scrap\$4 or clean\$4 or wiper or wash\$4) and (radiolucent or translucent or transparent or transmissiv\$4 or clear or trans\$4 or transmit\$4 or quartz\$4) with (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) and (slot\$4 or groov\$4) with (scrub\$4 or scrap\$4 or clean\$4 or wiper or wash\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 11:51

S10	0	@ad<"20030206" and S1 AND (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) same (steriliz\$4 or steriliza\$4 or sanitiz\$4 or sanitiza\$4 or disinfect\$4 or decontaminat\$4 or sterilis\$4 or sterilisa\$4) with (fomite or device or article or object or item or tool or piece or specimen or sample or surface or film or target or substrate or subject or workpiece or article or object or wafer or medium or liquid or gas or water) and (bulb or source or element or lamp or emitter or light or generat\$4) with (scrub\$4 or scrap\$4 or clean\$4 or wiper or wash\$4) and (radiolucent or translucent or transparent or transmissiv\$4 or clear or trans\$4 or transmit\$4 or quartz\$4) with (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) and (slot\$4 or groov\$4) with3 (scrub\$4 or scrap\$4 or clean\$4 or wiper or wash\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 11:52
S11	0	@ad<"20030206" and S1 AND (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) same (steriliz\$4 or steriliza\$4 or sanitiz\$4 or sanitiza\$4 or disinfect\$4 or decontaminat\$4 or sterilis\$4 or sterilisa\$4) with (fomite or device or article or object or item or tool or piece or specimen or sample or surface or film or target or substrate or subject or workpiece or article or object or wafer or medium or liquid or gas or water) and (bulb or	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 11:52

		source or element or lamp or emitter or light or generat\$4) with (scrub\$4 or scrap\$4 or clean\$4 or wiper or wash\$4) and (radiolucent or translucent or transparent or transmissiv\$4 or clear or trans\$4 or transmit\$4 or quartz\$4) with (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) and (slot\$4 or groov\$4) with3 (scrub\$4 or scrap\$4 or clean\$4 or wiper or wash\$4)				
S12	4	@ad<"20030206" and S1 AND (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) same (steriliz\$4 or steriliza\$4 or sanitiz\$4 or sanitiza\$4 or disinfect\$4 or decontaminat\$4 or sterilis\$4 or sterilisa\$4) with (fomite or device or article or object or item or tool or piece or specimen or sample or surface or film or target or substrate or subject or workpiece or article or object or wafer or medium or liquid or gas or water) and (bulb or source or element or lamp or emitter or light or generat\$4) with (scrub\$4 or scrap\$4 or clean\$4 or wiper or wash\$4) and (radiolucent or translucent or transparent or transmissiv\$4 or clear or trans\$4 or transmit\$4 or quartz\$4) with (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) and (slot\$4 or groov\$4) same3 (scrub\$4 or scrap\$4 or clean\$4 or wiper or wash\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 11:52

S13	9	@ad<"20030206" and S1 AND (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) same (steriliz\$4 or steriliza\$4 or sanitiz\$4 or sanitiza\$4 or disinfect\$4 or decontaminat\$4 or sterilis\$4 or sterilisa\$4) with (fomite or device or article or object or item or tool or piece or specimen or sample or surface or film or target or substrate or subject or workpiece or article or object or wafer or medium or liquid or gas or water) and (bulb or source or element or lamp or emitter or light or generat\$4) with (scrub\$4 or scrap\$4 or clean\$4 or wiper or wash\$4) and (radiolucent or translucent or transparent or transmissiv\$4 or clear or trans\$4 or transmit\$4 or quartz\$4) with (UV or ultraviolet or ultra?violet or EUV or VUV or \$4UV) and (slot\$4 or groov\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 11:57
S14	5	S13 not S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 11:57
S15	1	(US-7081636-\$).did.	USPAT	ADJ	ON	2009/09/02 12:04
S16	1	(US-6649917-\$).did.	USPAT	ADJ	ON	2009/09/02 12:07
S17	1	(US-4922114-\$).did.	USPAT	ADJ	ON	2009/09/02 12:13
S18	3	S15 or S16 or S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 12:16



S19	2	S15 or S16 or S17 and annular spring	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 12:33
S20	2	S15 or S16 or S17 and annular spring	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 12:33
S21	0	(S15 or S16 or S17) and annular spring	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 12:34
S22	0	(S15 or S16 or S17) and spring	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/02 12:34
S23	26	EP-1371611-\$.DID. OR US-6432213-\$.DID. OR US-6646269-\$.DID. OR US-5440131-\$.DID. OR US-2432840-\$.DID. OR US-2389577-\$.DID. OR US-5874740-\$.DID. OR JP-9299938-\$.DID. OR US-2306546-\$.DID. OR US-5958900-\$.DID. OR WO-0181019-\$.DID. OR US-1452523-\$.DID. OR DE-60015610-\$.DID. OR DE-60015610D-\$.DID. OR EP-1274521-\$.DID. OR JP-2003531004-\$. DID. OR US-2241553-\$. DID. OR US-2789300-\$. DID. OR WO-0051943-\$. DID. OR US-2371870-\$. DID. OR DE-60004178-\$. DID. OR DE-60004178D- \$.DID. OR EP-1159225-\$. DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/17 22:12

S24	12	US-2233882-\$.DID. OR US-3388270-\$.DID. OR US-4412233-\$.DID. OR US-4002882-\$.DID. OR US-5440131-\$.DID. OR US-5874740-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/17 22:14
S25	10	US-4195034-\$.DID. OR US-5440131-\$.DID. OR US-6432213-\$.DID. OR US-6646269-\$.DID. OR EP-1371611-\$.DID. OR US-7869199-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/17 22:14
S26	8	((PIERRE) near2 (GIRONDET)).INV.	US-PGPUB; USPAT	ADJ	ON	2010/01/08 15:15
S27	4	((CHRISTIAN) near2 (VANPEENE)).INV.	US-PGPUB; USPAT	ADJ	ON	2010/01/08 15:15
S28	213	OTV adj2 SA.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/08 15:15

### EAST Search History (Interference)

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